

548

ISEE-3

CDAW DATA SETS FOR 6.0

78-079A-01C.01E.02F

[REDACTED]

[REDACTED]

ISEE 3

BASIC SOLAR WIND PARAMETERS, TAPE

78-079A-01C

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in ASCII. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a VAX11 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005363	DS005363	D046011	1	03/22/79 - 04/01/79

REQ. AGENT

LSM

REQ. NO.

V0144

ACQ. AGENT

DMS

ISEE 3

BASIC SOLAR WIND PARAMETERS

78-079A-01C

This data set catalog consists of 1 tape(s). The tape(s) are 9 track, 1600 bpi, ascii with 4 file(s) of data. The time span D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-46011	C-21621	3/22/79-4/1/79

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

DATE: 17 August 1981
IN REPLY REFER TO: SSO:81-894
MAIL STOP: 436
TELEPHONE: 7-3897

Dr. James I. Vette
CDB-6 Workshop
Code 601
NASA Goddard Space Flight Center
Greenbelt, MD 20771

Dear Dr. Vette:

In response to your request for data for CDAW 6, we have produced tape containing the basic solar wind parameters indicated below the time periods March 22 from 0550 to 1946 UT and March 31 fr 1200 to April 1 at 0600 UT. The specifics for the tape are.

ANSI standard labeled tape
(LABEL = IMSIMS)
Has HDR 3
Written on VAX - 11/780, VMS revision v
Block size = 2048 bytes
1600 BPI
Odd Parity
1 file with 5260 records
Format: (2I6, 9E12.5/4E12.5)
2630 spectra with 15 elements per

LOCATION	NAME	FORMAT	DESCRIPTION
1	IYMD	I6	Year, Month,
2	IYRDOY	I6	Year, Day of ,
3	TIME	E12.5	Seconds of day
4	RPM	E12.5	Spacecraft spin r.
5	GSEX	E12.5	X-axis, positive to.
6	GSEY	E12.5	Y-axis, positive towa.
7	GSEZ	E12.5	Z-axis, positive toward
8	DENS	E12.5	Density (cm^{-3})
9	VO	E12.5	Bulk Velocity (km/sec)
10	PHI	E12.5	Bulk flow angle (deg)
11	TPAR	E12.5	Parallel temperature (k°)
12	TPER	E12.5	Perpendicular temperature (k°)
13	PSIT	E12.5	Angle of parallel temperature (deg.)
14	TAVE	E12.5	Average temperature (k°)
15	TPAR/TPER	E12.5	Temperature ratio - anisotropy

The tape is being sent under separate cover. Sorry about the delay.

Sincerely,

Ron Zwickl

Ron Zwickl

CY: CRMO (2), MS 150

Sam Bame, SSO Equal Opportunity Employer/Operated by University of California

ISEE 3

SOLAR WIND DATA, 24-SEC

78-079A-01E

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in ASCII. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005410	DS005410	D047451	1 - 3	03/22/79 - 04/01/79

REQ. AGENT

LSM

REQ. NO.

V0144

ACQ. AGENT

DMS

ISEE 3

SOLAR WIND PLASMA

78-079A-01E

This data set catalog consists of 1 tape(s). The tape(s) are 9 track, 1600 bpi, ascii with 3 file(s) of data. The time span D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-47451	C-22171	3/22/79, 4/1/79

SOLAR WIND PLASMA PARAMETERS FROM ISEE-3 FOR CDAW-6
from Los Alamos Plasma Group

A tape has been sent to NSSDC that contains the basic Solar Wind parameters from the Los Alamos Solar Wind experiment. The format for the tape is given in Table 1. Details concerning the timing and method of calculation are given below. A close reading of this documentation will help the reader understand the range of validity of the data set.

TIMING:

The solar wind data prepared for CDAW-6 is composed of Track mode data, the high time resolution data mode. Each calculated parameter represents the combination of two independent measurements taken one spin apart. A single measurement takes ~ 0.5 sec to complete. The time tag applied to each to each parameter set represents the start time of the second measurement. Thus, the average time of the measurement is actually $1/2$ of one spin period earlier than given. This is approximately 1.5 sec, a timing offset much too small to effect any results of the CDAW-6 workshop.

The finest time resolution of the two-point averages is ~ 24 seconds (based on a spin rate of 20 RPM). However, measurements are not made every 24 seconds since the track mode alternates with our 3-D and Search modes. The actual sequence of measurements for the CDAW-6 time period is 8 track, followed by a 3-D, followed by a search mode measurement. The timing for the various modes is such that 8 track mode measurements are followed by a 5 times 24 second gap. While the finest time resolution is ~ 24 seconds, the intermediate data gap is ~ 120 sec.

COORDINATE SYSTEMS:

The coordinate system used to track the spacecraft is different from the system used in our solar wind parameter calculations. The ISEE-3 spacecraft coordinates listed in Table 1 are: The positive X-axis points radially toward the Sun from the Earth; The positive Y-axis points east of the Sun; and the positive Z-axis points toward the North pole. The coordinates used in the solar wind calculations are: The positive X-axis points radially away from

the Sun through the spacecraft; the positive Y-axis points west of the Sun; and the positive Z-axis points toward the North pole.

NUMERICAL CALCULATION OF PARAMETERS:

The ion parameters listed in Table I were calculated by numerically integrating the measured distribution function. The Helium calculations were made by assuming all counts above a certain energy level, based on the position of the Hydrogen peak, were due to Helium ions. This assumption is accurate when the Hydrogen thermal temperature is small. As the Hydrogen temperature increases, part of the Hydrogen distribution will be counted as Helium ions. No correction has been made for this effect in this particular calculation. If the Hydrogen temperature rises above a certain temperature, no Helium model calculations are made.

3-D POLAR BULK FLOW ANGLE

A separate numerical integration program is used to calculate the polar flow angle which can only be obtained from the 3-D mode data. As stated above a spectrum can be obtained from the 3-D data only once in ~ 5.2 minutes. Thus, the same value of the polar angle has been placed in each data record (8 track mode records) within the 5.2 minute interval.

ELECTRON TEMPERATURE

A separate numerical integration program is used to calculate the total electron temperature. The electron data is calculated every ~ 170 seconds. Thus, the same electron data is placed in each record within the stated time interval.

LOCATION	NAME	FORMAT	DESCRIPTION
1.	IYMD	I6	Year, Month, Day
2.	IYRDOY	I6	Year, Day of Year, (Jan. 1=1)
3.	TIME	E12.5	Seconds of Day
*4.	THETA	E12.5	POLAR FLOW ANGLE (deg°)
5.	GSEX	E12.5	X-axis, positive toward Sun
6.	GSEY	E12.5	Y-axis, positive toward east of Sun
7.	GSEZ	E12.5	Z-axis, positive toward North pole
8.	DENSP	E12.5	Density of Hydrogen (cm ⁻³)
9.	VO	E12.5	Bulk Velocity of Hydrogen (km/sec)
10.	PHI	E12.5	Ecliptic bulk flow angle (deg.°)
11.	TPAR	E12.5	Parallel temperature (K°)
12.	TPER	E12.5	Perpendicular temperature (K°)
*13.	DENSA	E12.5	Density of Helium (cm ⁻³)
*14.	TAVEA	E12.5	Average temperature of Helium (K°)
*15.	TAVEE	E12.5	Average temperature of electrons (K°)

*NOTES: Changes from First CDAW-6 tape.

- 4) Time resolution of 3-D polar flow direction is ~ 5.2 minutes. Thus same value of THETA is assigned to all data with 5.2 minute period.
- 13) Density of Helium on 24 sec time scale
- 14) Average temperature of Helium ($T_{AVE} = [T_{||} + 2T_{\perp}] / 3$)
- 15) Average temperature of electrons has an ~ 170 sec time resolution. Thus, same value of TAVEE is assigned to all data within the 170 sec time period.

ISEE 3

60-SEC MAG FIELD DATA ON MAG TAPE

78-079A-02F

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in ASCII. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR005300	DS005300	D047408	1 - 4	03/22/79 - 03/31/79

REQ. AGENT

LSM

REQ. NO.

V0144

ACQ. AGENT

DMS

ISEE 3

B - FIELD

78-079A-02F

This data set catalog consists of 1 tape(s). The tape(s) are 9 track, 1600 bpi, ascii with 4 file(s) of data. The time span D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-47408	C-22153	3/22/79, 3/31/79

DUMP OF TAPE X-393.

D - 46011
3/22/79 - 4/1/79

INPUT TAPE X-393 ON MT2									
DATA INPUT H9 NF 4 FL 4 1 1									
	FILE	1 RECORD	1 LENGTH	80 BYTES					
)	(0)	564F4C31	494D5349	4D532020	20202020	20202020	20202020	20202020	20442543
)	(40)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202033
)	FILE	1 RECORD	4 LENGTH	80BYTES					
)	(0)	48445233	30303738	30313032	30303030	30303030	30303030	30303030	30303030
)	(40)	30303030	30303030	30303030	30303030	30303030	30303030	30303030	30303030
)	FILE	INPUT	DATA RECORDS	MAX.	PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES
)	1.	4	5	80	0	0	0	0	0
)	FILE	2 RECORD	791342	2048BYTES					
)	(0)	30313234	17193033	32322037	39303831	20322E31	30333035	452B3034	20312E39
)	(40)	20322E33	36393030	452B3032	20392E31	35373430	452B3031	20312E30	39393930
)	(80)	37393530	452B3031	20332E34	35303130	452B3032	20312E30	33373430	452B3030
)	(120)	452B3034	33363730	452B3032	20352E39	452B3034	20312E30	452B3030	34393130
)	(160)	452B3034	20312E36	39353330	452B3030	30313234	37393033	32322037	39393831
)	(200)	452B3034	20312E39	38353030	452B3031	20322E33	36393030	452B3032	20392E31
)	(240)	20312E30	39393930	452B3031	20312E32	34393230	452B3031	20332E34	32373430
)	(280)	34383030	452B3030	20352E37	36353330	452B3034	30313532	20332E35	36383430
)	(320)	35333930	452B3032	20343033	30373839	452B3034	20313636	31303334	452B3033
)	(360)	32322037	39303831	30322E31	30373839	452B3034	20312E39	38353030	452B3030
)	(400)	452B3032	20392E31	35373430	452B3031	20312E30	36393030	452B3031	20312E30
)	(440)	20332E34	30303830	452B3032	20312E38	31363330	452B3030	20352E34	38363030
)	(480)	20332E35	32363230	452B3034	20312E30	37373730	452B3032	20342E31	37393430
)	(520)	35383030	452B3030	30313234	37393033	32322037	39393831	20322E31	31303330
)	(560)	38353030	452B3031	20322E33	30373839	452B3034	20312E36	31303334	37393033
)	(600)	452B3031	20312E31	33383330	452B3031	20322E32	30373839	452B3030	20322E33
)	(640)	20362E32	31333230	452B3034	20303532	20342E30	30633330	452B3034	20312E30
)	(680)	20342E37	34313930	452B3034	20312E35	35303930	452B3030	30313234	37393033
)	(720)	20322E31	31323731	452B3034	20312E39	38353030	452B3031	20322E33	36393030
)	(760)	35353030	452B3031	20322E30	39393030	452B3031	20312E33	36393032	20392E31
)	(800)	452B3032	20322E32	34393230	452B3031	20352E34	38333230	452B3030	30303532
)	(840)	452B3034	20312E34	32383530	452B3032	20342E35	35353430	452B3034	20312E33
)	(880)	30313234	37393033	32322037	39303831	20322E31	31353134	452B3034	20312E39
)	(920)	20322E33	36393030	452B3032	20392E31	35373630	452B3031	20312E30	39393930
)	(960)	38373830	452B3031	20322E33	35323430	452B3032	20312E31	33363430	452B3030
)	(1000)	452B3034	30303532	452B3034	20312E30	30633330	452B3034	20312E30	39393032
)	(1040)	452B3034	20392E33	30313930	452D3031	30312E30	37393033	32322037	39393831
)	(1080)	452B3034	20312E39	38353030	452B3031	20322E33	36393030	452B3032	20342E33
)	(1120)	20312E30	39393930	452B3031	20312E32	34383030	452B3031	20332E35	33343730
)	(1160)	37333730	452B3030	20372E37	35303830	452B3034	30303532	20332E36	32303130
)	(1200)	38343630	452B3031	20322E31	31393935	452B3034	20312E39	34313030	452B3034
)	(1240)	32322037	39303831	20322E31	36393030	452B3031	20332E32	30303532	20322E33
)	(1280)	452B3032	20312E31	35373730	452B3031	20312E30	39393830	452B3031	20312E31
)	(1320)	20332E33	38353830	452B3032	20362E30	34373530	452B3032	20342E34	39393730
)	(1360)	20352E35	373563730	452B3034	20312E30	37383330	452B3031	20352E32	31373730
)	(1400)	36383030	452B3031	20312E34	37383033	452B3034	20322E37	39303831	452B3030
)	(1440)	38353030	452B3031	20322E34	36393033	452B3030	20342E31	333435	452B3034
)	(1480)	452B3031	20312E31	30593430	452B3031	20332E33	36333730	452B3032	20312E38
)	(1520)	20342E35	36313730	452B3034	30303532	20332E37	34343630	452B3034	20312E32
)	(1560)	20342E30	31373030	452B3034	20312E32	31383230	452B3030	30313234	37393033
)	(1600)	20322E31	33363839	452B3034	20312E39	38353030	452B3031	20322E33	36393032
)	(1640)	35383030	452B3031	20312E30	39393730	452B3031	20312E30	39353430	452B3030
)	(1680)	452B3032	20312E35	37323530	452B3030	20342E36	39313230	452B3034	30303532
)	(1720)	452B3034	20312E33	30343030	452B3032	20342E31	39393630	452B3034	20312E31
)	(1760)	30313234	37393033	32322037	39303831	20322E31	33393239	452B3034	20312E39
)	(1800)	20322E33	36393030	452B3032	20392E31	35383030	452B3031	20312E30	39393730

FILE	2 RECORD	4FB40 4FB0H	2048BYTES
(0)	30313234	3739034	30312037 39303931
(40)	20322E32	35333230	452B3030 30312E30
(80)	31323830	452B3030	20324E33 39323030
(120)	452B3035	30303532	20322E35 39383330
(160)	452B3035	20382E38	39363530 452D3031
(200)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(240)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(280)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(320)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(360)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(400)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(440)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(480)	5E5F5E5F	5E5F5E5F	5E5F5E5F 5E5F5E5F
(520)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(560)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(600)	5E5F5F5F	5E5F5F5F	5E5F5F5F 5E5F5F5F
(640)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(680)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(720)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(760)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(800)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(840)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(880)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(920)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(960)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1000)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1040)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1080)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1120)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1160)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1200)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1240)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1280)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1320)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1360)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1400)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1440)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1480)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1520)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1560)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1600)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1640)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1680)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1720)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1760)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1800)	5E5E5E5E	5E5F5F5F	5E5E5E5E 5E5E5E5E
(1840)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1880)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(1920)	5E5E5E5E	5E5F5F5F	5E5E5E5E 5E5E5E5E
(1960)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E
(2000)	5E5E5E5E	5E5E5E5E	5E5E5E5E 5E5E5E5E

READ ERROR SUMMARY				INPUT RETRIES	
PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL #

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	BYTES
	240	241	2048	
	2	3	1	LENGTH
FILE		RECORD		

(0) 454F4631 464F5230 31302F44 41542U20 20202U20 20494D53 494D5330 30303130 30303130
(40) 31203931 323223920 30303030 30203030 30323430 44454346 494C4531 31412020 20202020

FILE

3

RECORD

3

LENGTH

80BYTES

FILE

0

RECS.

30303738

30313032

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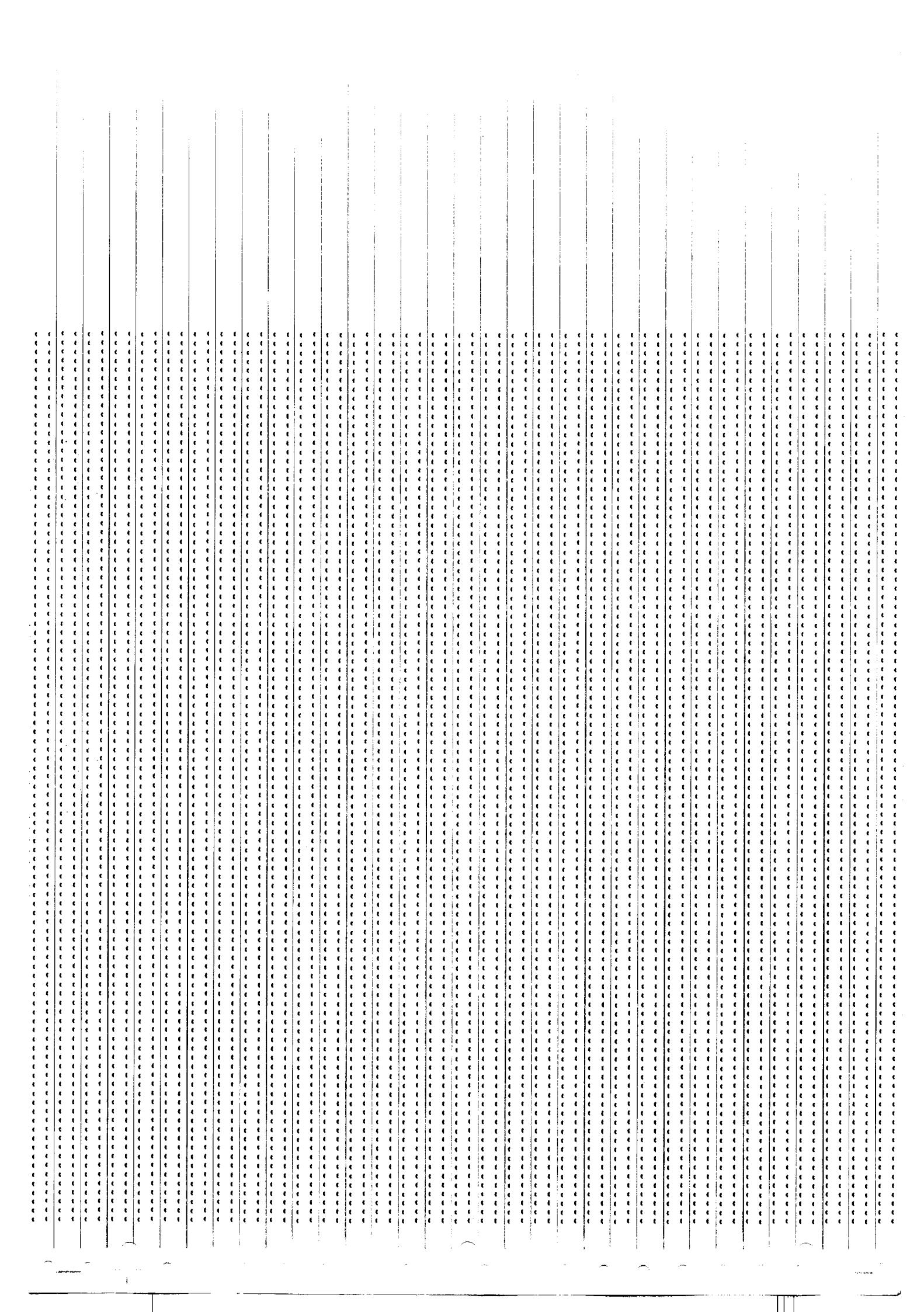
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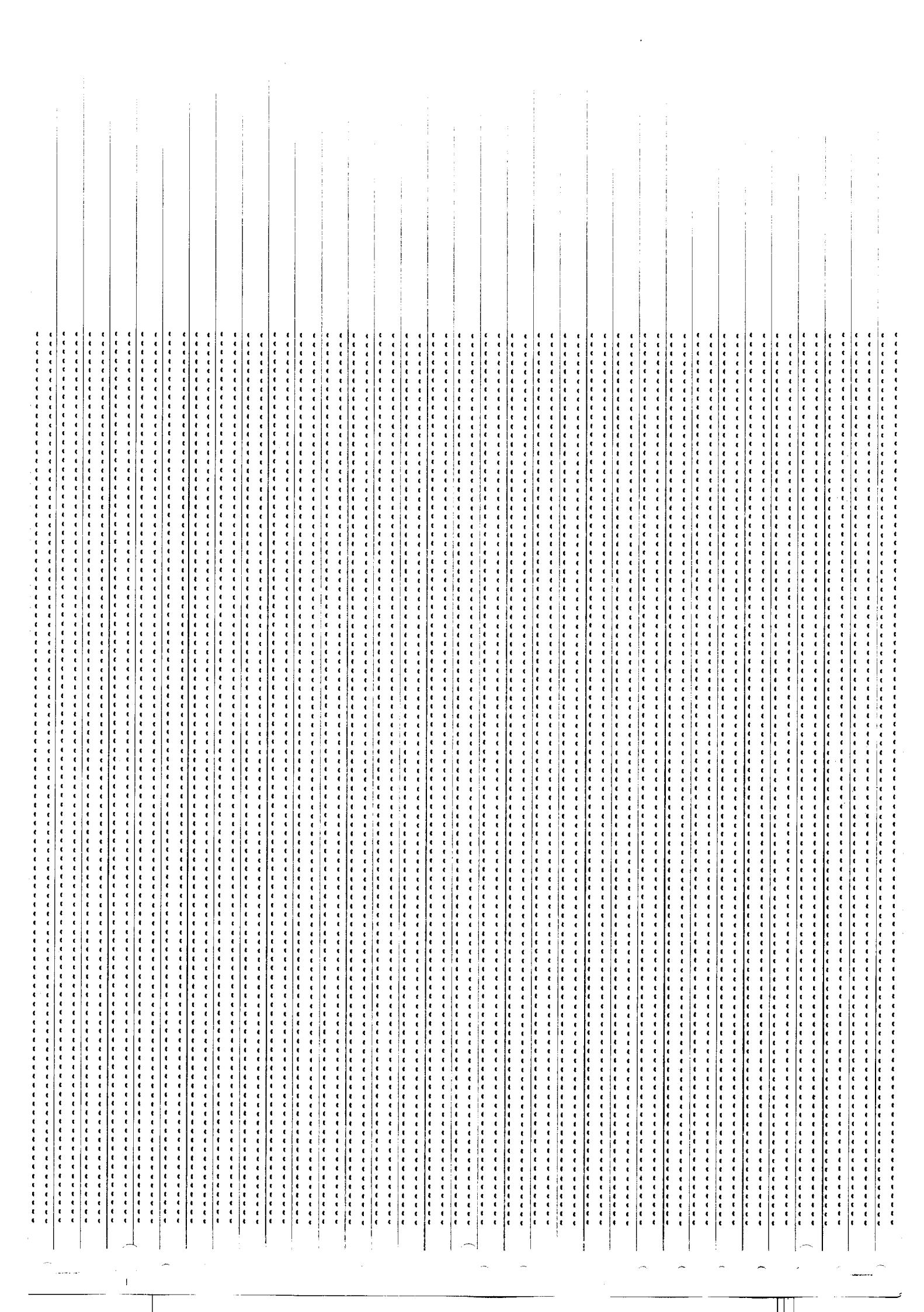
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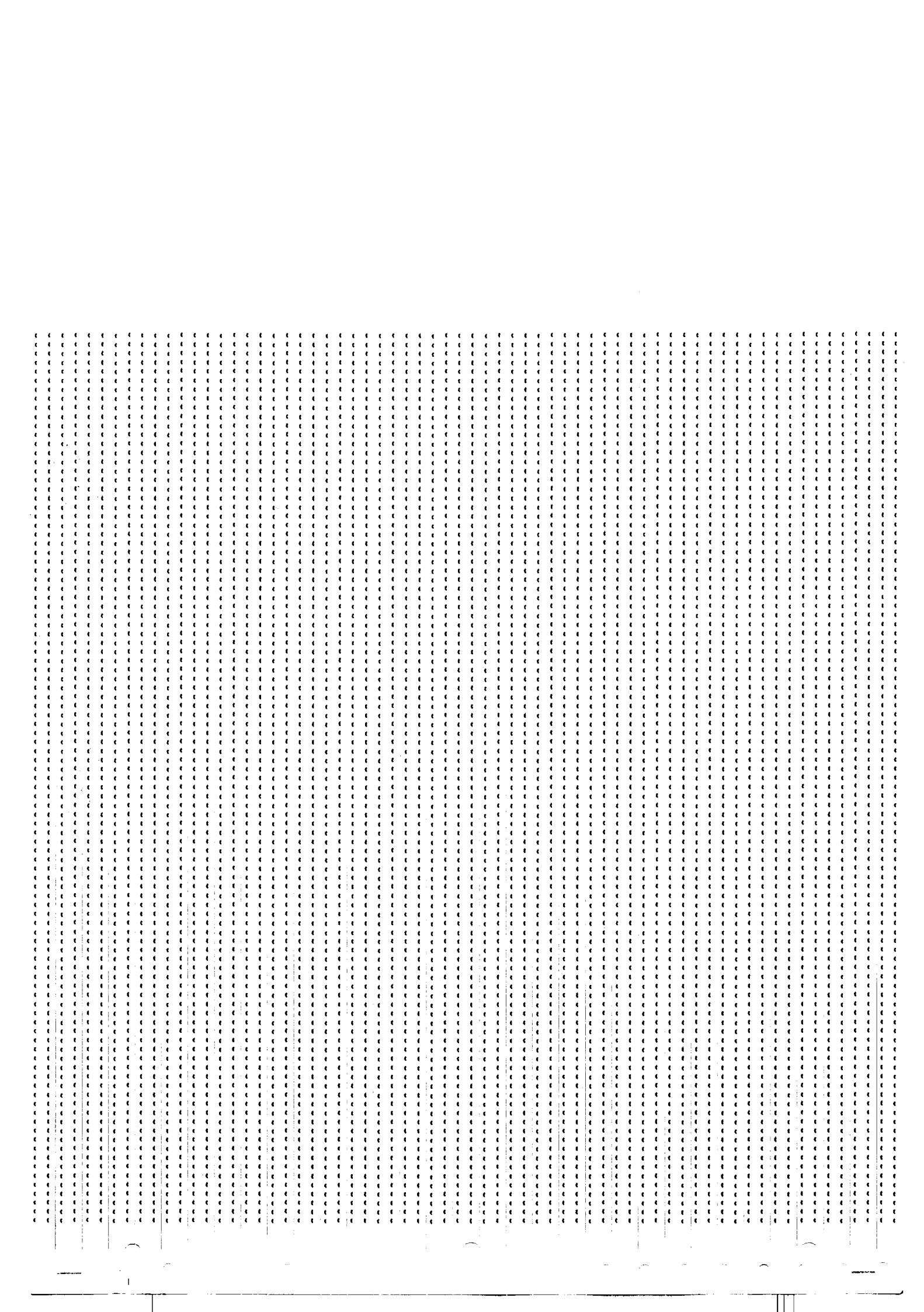
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E+04-4-29200E+01-2-25330E+02-1-00760E+02 5-29140E+00 6-87560E+00 4-77930E+02-2-1.0520E+00 2-82370E+0 5.0053-2.34630E+00 0.00000E+00 1.32467E+050125 790401-2.04374		
5330E+02-1-00760E+02 5-22902E+00 6-17070E+00 4-78120E+02-1-049020E+02 5-24080E+00 2-67680E+00 4-24080E+00 5-01 .30450E-02 4.48153E+05 1..34177E+050125 790401-2.04374		
5-29070E+00 6.18400E+00 4.49590E+002-3.50280E+00 1.99770E+0050053 2.53750E+05 0.00000E+00 0-00000E+00 6.09390 00 1.34177E+050125 790401-2.04374		
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0-4-2-9580E+00 2-25330E+02-1-00760E+02 5-28850E+00 4-56070E+00 5-02-2-01570E-01 2-73630E+00 1-2.73630E+00 5-050 053 2-08370E+05 5-58650E-02 4-62833E+05 1-34913E+050125 790401-2.04374		
.30E+02-1-00760E+02 5-28850E+00 6-20820E+00 4-61290E+02 6-90230E-01 2-27530E+050053 2-81780E+00 5-1-7 9980E-02 3-512270E+05 1-34913E+050125 790401-2.04374		
.28830E+00 6-83000E+00 4-780100E+00 1-181700E+00 2-171800E+00 2-25330E+02-1-00760E+02 5-28720E+00 6-319270E+05 0-00000E+00 1-34913E+050125 790401-2.04374		
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E+02-1-00770E+02 5-28510E+00 6-53260E+00 4-41905E+00 3-34190E+00 5-0125 790401-2.04374		
00E+00 0-00000E+00 1-31957E+050125 790401-2.04374		
8490E+00 6-81730E+00 4-40890E+02-2-50500E+00 2-69920E+0050053 2-42290E+05 0-90000E+00 0-00000E+00 1- .31957E+050125 790401-2.04374		
2-36890E+05 0-00000E+00 0-00000E+00 1-31957E+050125 790401-2.04374		
4-23960E+00 3-44340E+00 4-55420E+0050053 2-19190E+05 0-00000E+00 0-00000E+00 1-31957E+050125 7904 0 1-79091 2.14039E+04-4.48050E+00 2-25320E+02-1-00770E+02 5-28450E+00 7-4.3370E+00 4-492370E+02-1-40810 E+00 3-13420E+050053 2-28640E+00 5-00000E+00 0-00000E+00 1-31957E+050125 790401-2.04374		
4-48050E+00 2-25320E+02-1-00770E+02 5-28450E+00 6-32940E+00 4-48020E+00 2-25320E+02-1-00770E+02 5-0.0005 2-36890E+05 0-00000E+00 0-00000E+00 1-31150E+050053 2-59830E+00 5-0.00000E+00 1- +02-1-00770E+02 5-28430E+00 7-01750E+00 4-32880E+02-1-19020E+00 2-57620E+05 0-0.0000 0E+00 0-00000E+00 1-306712 50125 790401-2-14764E+04-4-48050E+00 2-25320E+02-1-00770E+02 5-0.0000 400E+00 6-51280E+00 4-39200E+02-1-45430E+00 2-31150E+050053 2-59830E+00 5-0.00000E+00 1- 30670E+05 0-00000E+00 0-00000E+00 1-31150E+050053 2-59830E+00 5-0.00000E+00 1-		







***** JOB DONE.
SWEOLPS

SEXUAL PREDATION

D-47408

3/22/79
3/31/79

SNOP ***** X407 *****

\$EXE TPLIST BS

INPUT PARAMETERS ARE: AS FL=1 4

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RECORD 1 LENGTH 80 [five minute averages] 0001.000TAPE NO. 1 FILE NO. 1
RECORD 303 LENGTH 80
1197.5 -11.0 6.3 .7 12.8 4.8 4.1 18.10 518.0 58. 0303.000TAPE NO. 1 FILE NO. 2
RECORD 1 LENGTH 80 [five minute averages] 0001.000TAPE NO. 1 FILE NO. 2
RECORD 186 LENGTH 80
1197.5 -9.3 5.4 2.7 11.2 3.2 5.2 -.00 -0 83. 0186.000TAPE NO. 1 FILE NO. 3
RECORD 1 LENGTH 80 [one minute averages] 0001.000TAPE NO. 1 FILE NO. 3
RECORD 865 LENGTH 80
1198.5 -10.0 5.4 1.7 11.5 3.7 4.3 -.00 -0 84. 0865.000TAPE NO. 1 FILE NO. 4
RECORD 1 LENGTH 80 [one minute averages] 0000.100TAPE NO. 1 FILE NO. 4
RECORD 1095 LENGTH 80
1199.5 2.2 -4.7 5.7 7.9 -6.3 3.8 -.00 -0 76. 1080.000

*** JOB DONE.

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